



INFORMA
Una compañía Cesce

API REST

Integration services

dun & bradstreet
WORLDWIDE NETWORK



How does the API Empresas service work?

API Empresas is a data access service to the Businesses Database of Informa. It provides direct access to the companies' fields from any other application, integrating it on its pages or services through JSON/Rest.

The developed system works as a web service based on a REST service with the information returned in a JSON format.

The REST service will reside on an Informa's web server accessible through an address supplied by Informa S.A. during the integration.

What does the API Empresas serve for?

You could use API Empresas to integrate the information of our database and develop your own applications with advanced functionalities:

- Integrate businesses' contact information in your own CRM and ERP systems.
- Carry out validation of the companies' data within your processes.
- Improve the conversion of your register forms and avoid misinformation by autocompleting the information provided by the user.
- Develop an integrated system with your own look and feel.
- Verifying customers' credentials.
- Obtain variables for the calculation of your scorecard.

Specific use cases

- **Marketing**

Enrich your CRM.

You can keep it constantly updated with the daily updating your customers' or prospects' contact information.

- **Risk**

Improve your automatic credit admission or assignment processes.

- **Identifier**

Increase your conversion rates.

You can increase by 50% the conversion rates of your business registration forms thanks to the autocompletion of forms with business data.

- **Scorecard**

You can define and obtain only those data or variables necessary for your scoring model, saving time and gaining efficiency in decision making.

- **Your specific needs**

These are some examples, but we will be pleased to help you and adapt to your needs.

What services are there available?

There are several available services that you can choose depending on your needs and those of the application you are using:

- **Search by Fiscal Identification Number.**

You could identify a company with its Fiscal Identification Number and see all the available reports and modular products offered by Informa D&B SA.

```
"datosProducto": {
  "informacionComercial": {
    "identificacion": {
      "cif": "A80192727",
      "dunsNumber": 477653133,
      "denominacionActual": "INFORMA D&B S.A.U. (S.M.E.)",
      "listaDenominacionesAntiguas": [
        "INFORMA SA"
      ],
      "listaTelefonos": [
        "902176076"
      ],
      "fax": "916615414",
      "email": "clientes@informa.es",
      "listaUrls": [
        "www.informa.es",
        "www.dbk.es"
      ],
    ],
  },
  .....
}
```

- **Search by Name.**

You could also locate and identify a company from its registered name or address

```
{
  "campoCodificadoRespuesta": {
    "valor": 0,
    "tablaDecodificacion": "tablaCodigoRespuesta"
  },
  "datosPetición": {
```

```

"productoSolicitado": "lista_empresas",
"numeroVersionTablasInformacionComercial": 5.52,
"parametrosCliente": {
  "denominacion": "INFORMA"
}
},
"datosProducto": {
  "totalEmpresas": 108,
  "listaEmpresas": [
    {
      "indice": 1,
      "cifCodificado": "QTI4MjE5MjY5fDAYMDM=",
      "campoCodificadoFormaJuridicaAmpliada": {
        "valor": "0101",
        "tablaDecodificacion": "tablaFormaJuridicaClase"
      },
      "campoCodificadoProvincia": {
        "valor": "28",
        "tablaDecodificacion": "tablaProvincias"
      },
      "denominacion": "INGENIERIA FORESTAL ORNAMENTAL Y MADERERA SA",
      "campoCodificadoTipoDenominacionBusqueda": {
        "valor": "10",
        "tablaDecodificacion": "tablaTiposDeno"
      }
    },
    {
      "indice": 2,
      "cifCodificado": "QTgwMTkyNzI3fDAYMDM=",
      "campoCodificadoFormaJuridicaAmpliada": {
        "valor": "0104",
        "tablaDecodificacion": "tablaFormaJuridicaClase"
      }
    }
  ]
}
.....

```

- **Search by administrators.**

A list of related companies can also be identified by name and surname where they are listed as administrator.

```

"datosProducto": {
  "totalAdministradores": 67,
  "listaAdministradores": [
    {
      "campoCodificadoCargo": {
        "valor": "10",
        "tablaDecodificacion": "tablaCargo"
      },
      "nombreApellidos": "SAINZ MUÑOZ JUAN MARIA",
      "cif": "G28208759",
      "denominacion": "REAL SOCIEDAD HIPICA ESPAÑOLA CLUB DE CAMPO",
      "campoCodificadoProvincia": {
        "valor": "28",
        "tablaDecodificacion": "tablaProvincias"
      },
      "campoCodificadoCodVida": {
        "valor": "00",
        "tablaDecodificacion": "tablaVida"
      }
    },
    {
      "campoCodificadoCargo": {
        "valor": "40",

```

```
    "tablaDecodificacion": "tablaCargo"  
  },  
  "nombreApellidos": "SAINZ MUÑOZ JUAN MARIA",  
  "cif": "G28208759",  
  "denominacion": "REAL SOCIEDAD HIPICA ESPAÑOLA CLUB DE CAMPO",  
  "campoCodificadoProvincia": {  
    "valor": "28",  
    "tablaDecodificacion": "tablaProvincias"  
  },  
  "campoCodificadoCodVida": {  
    "valor": "00",  
    "tablaDecodificacion": "tablaVida"  
  }  
},  
.....
```

Monitoring Service

Every day thousands of changes are analysed and processed in the database.

With Alerts you will be able to consult all the changes in all the companies of your portfolio and even be able to customise them to receive only those you are interested in.

The new service will mean greater flexibility to manage your client portfolio.

You could automate the maintenance of your portfolios under surveillance, carrying out queries, additions, deletions and reactivation of portfolios, companies contained therein, and events to be monitored.



Information supplied

You would hereby find a list of services to obtain the different products or the search of companies or administrators.

GET-PRODUCT SERVICE
Summarized Report
Credit Report
Financial Report
Customized Report
Company card
Credit assessment
Solvency rating evolution
BORME acts
BORME acts detail
Press articles
Press articles details
Legal information
Legal information details
Administrators

Shareholders
Participations
Balance sheets
Balance sheet details
GET-COMPANIES SERVICE
Companies search
GET-ADMIN SERVICE
Search administrators
GET-TABLES SERVICE
Information table

ERRORS

The possible errors and warnings that may occur are represented by a code and a description. This table details this correspondence:

ERROR CODE	INTERNAL CODE	DESCRIPTION
<u>IDENTIFICATION AND AUTHORISATION ERRORS</u>		
0	OK	The operation has been correctly processed. This code indicates that the requested operation has been performed correctly.
10000	SGC_10000	The connection could not be established with the Commercial Management System. This error occurs when the machine providing the user identification service is out of service.
10001	SGC_10001	Invalid user. This error occurs when connection parameters (user / password or user / session ID) are not valid for identification within the service.
10002	SGC_10002	The user does not have permissions to request the product. This error occurs when the user tries to order a certain product but does not have sufficient permissions to order that product.
10003	SGC_10003	The password has expired, you need to change it. This error occurs when the user has entered an expired password. The user must change this password to access the integration services.
<u>DATA SOURCE ERRORS</u>		

11000	DATA_11000	Data source unavailable. Error occurred because the data source is not available at the time of the request.
11001	DATA_11001	Product not available. This error occurs when the requested product is unavailable for the CIF requested.
11002	DATA_11002	Minimum requirements not met. This error occurs when the user requests a product but the product does not meet the minimum requirements defined by the user at a session level or the minimum generic quality requirements that the product should meet.
11003	DATA_11003	The Cif /nif does not exist in the database. This error occurs when the nif entered is not registered in our companies/sole proprietorships census.
11005	DATA_11005	Company temporarily blocked for information updating. (i.e. Transfer)
<u>ERRORS PRODUCED BY THE REQUEST</u>		
12000	SI_12000	Incomplete parameters to respond to the request. This error occurs when the customer does not fill all the compulsory parameters of the request necessary to respond to the request.
12001	SI_12001	Internal server error. This error would hardly occur; it is not included in the cases applied to the products generation.

How does it work?

Once the operative user has been created it could send HTTPS requests through the API with the CIF identification number or the company's registered name. With the request, we would return a JSON data structure containing the fields of the company you need.



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Customer Service

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